

CLAIMS

1. A locking device for a cover and the like which is locked by a first push and unlocked by a second push, comprising:

- a case (1) open at one of its ends (6);

5                    - a sliding member (2) engaged in said case (1) and moveable with respect to it in a sliding direction (C), comprising a body (22) and two opposed elastic claws (23) which, when not urged, are maintained apart from each other, with, in a locked position, the sliding member (2) inserted in the case (1), two opposed faces (17) of the latter holding the two claws (23) brought  
10                  towards each other, and in a release position, the body (22) of the sliding member (2) being substantially flush with the opening (6) of the case (1), freeing the claws (23);

15                  - a spring (42) arranged between the body (22) of the sliding member (2) and the case (1), urging the sliding member towards the release position;

the device being characterized in that:

- the case (1) comprises a work face (8) provided with an elastic leg (7) moveable in the plane of said face (8), the elastic leg (7) being provided with a follower (14) projecting towards the inside of the case (1);

20                  - the sliding member (2) comprises, parallel to said work face (8), a planar cam surface (24) from which projects, towards the work face (8), a central island (27) about which is formed a cam track for the follower (14), the follower, with respect to the island, being in a captive position (V) when the device is in its locked position while in a free position (R) when the device is in  
25                  the release position;

with, on the first push, the follower (14) passing from its free position (R) to its captive position (V) by a first path on the cam track and, on the second push, the follower (14) passing from its captive position (V) to its free position (R) by a second path distinct from the first path.

30                  2. A device according to claim 1, characterized in that said elastic leg (7) comprises, on the face on the opposite side from the follower (14), a

planar contact surface (13) adapted to cooperate with a wall (43) provided for being held against the work face (8).

3. A device according to claim 1 or 2, characterized in that the case (1) comprises, on each of its lateral faces (17) adjacent to the work face (8), at least one fixing lug (18) opposite a stop surface (5) transverse to the direction of sliding (C), and in that the contact surface (13) extends beyond the ends of the fixing lugs (18) towards the opening (6).

4. A device according to one of claims 1 to 3 characterized in that the elastic leg (7) comprises two branches (10) each attached to a corner (12) of the work face (8), the two branches (10) joining together at the follower (14).

5. A device according to one of claims 1 to 10, characterized in that the follower (14) comprises a lateral flat.

6. A device according to one of claims 1 to 5, characterized in that said cam track is further defined by two lateral walls (25, 26) substantially parallel to the direction of sliding (C), as well as by a peninsula (28) facing the central island (27), situated at the connection of the elastic claws (23) to the sliding member (2), said lateral walls (25, 26) and said peninsula (28) projecting from the cam surface (24) towards the work face (8).

7. A device according to one of claims 1 to 6, characterized in that said central island (27) comprises a first edge (29), parallel to the direction of sliding (C), a second edge (30) starting from one end of the first edge (29) and oriented obliquely, these two edges (29, 30) furthermore being connected by a curved edge (31) bowed towards the inside of the central island (27).

8. A device according to claim 6 or 7, characterized in that the peninsula (28) comprises two edges (32, 33) forming a point directed towards the central island (27), one of those edges (32), situated on the same side as the second edge (30) of the central island (27), being parallel to the direction of sliding (C) and the other edge (33), situated on the same side as the first edge (29) of the central island (27), being oblique.

9. A device according to one of claims 6 to 8, characterized in that the cam track comprises at least one portion of width just sufficient for the passage of said follower (14).

10. A device according to one of claims 6 to 9, characterized in that the peninsula (28) comprises at least one stop edge (34, 35) arranged transversely to the direction of sliding (C) and adapted to form an abutment for the follower (14).

5        11. A device according to one of claims 6 to 10, characterized in that the cam surface (24) further comprises a non-return rib (41) projecting from said surface (24) towards the work face (8) and arranged parallel to the direction of sliding (C), said non-return rib (41) extending between the central island (27) and the peninsula (28).

10        12. A device according to one of claims 1 to 11, characterized in that the case (1) comprises a guide aperture (19) on one of its sides perpendicular to the opening (6) and in that the sliding member (2) comprises a tooth (40) engaged in said guide aperture (19).

15        13. A device according to claim 12, characterized in that the case (1) comprises an engagement groove (20) situated on the inner face of the side on which the guide aperture (19) is formed, the engagement groove (20) continuing on from the guide aperture (19) to one end of the case (1), with less depth.

20        14. A device according to claim 12 or 13, characterized in that said tooth (40) comprises a bevel.

25        15. A device according to one of claims 6 to 14, characterized in that the lateral walls (25, 26) comprise a portion (38) projecting beyond the opposite end of the sliding member (2) from the claws (23) and adapted to be inserted in an aperture (16) formed in the opposite face (15) of the case from the opening (6).

16. A device according to one of claims 1 to 15, characterized in that the casing (1) comprises a guide (21), for a spring (42), projecting from the opposite face (15) of the case from the opening (6).

30        17. A device according to one of claims 1 to 16, characterized in that the sliding member (2) comprises a hole (39) for receiving the spring (42).